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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 DEC 01 ChemPort single article sales feature unavailable  
NEWS 3 JUN 01 CAS REGISTRY Source of Registration (SR) searching  
enhanced on STN  
NEWS 4 JUN 26 NUTRACEUT and PHARMAML no longer updated  
NEWS 5 JUN 29 IMSCOPROFILE now reloaded monthly  
NEWS 6 JUN 29 EPFULL adds Simultaneous Left and Right Truncation  
(SLART) to AB, MCLM, and TI fields  
NEWS 7 JUL 09 PATDPAFULL adds Simultaneous Left and Right  
Truncation (SLART) to AB, CLM, MCLM, and TI fields  
NEWS 8 JUL 14 USGENE enhances coverage of patent sequence location  
(PSL) data  
NEWS 9 JUL 27 CA/CAplus enhanced with new citing references  
NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855  
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information  
NEWS 12 JUL 28 EPFULL adds first-page images and applicant-cited  
references  
NEWS 13 JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data  
  
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:19:32 ON 06 AUG 2009

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:19:51 ON 06 AUG 2009

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STRUCTURE FILE UPDATES: 4 AUG 2009 HIGHEST RN 1172694-04-0  
DICTIONARY FILE UPDATES: 4 AUG 2009 HIGHEST RN 1172694-04-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

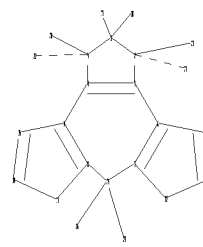
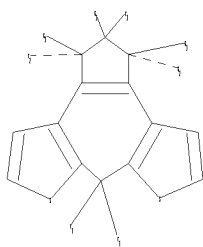
Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
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experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10523965.str



chain nodes :  
17 18 20 21 22 23 26 27  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 25

chain bonds :  
1-17 1-18 2-21 2-23 5-20 5-22 25-26 25-27  
ring bonds :  
1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-25 8-13 8-9 8-25 9-15  
10-11 11-12 13-14 14-15  
exact/norm bonds :  
1-2 1-5 1-17 1-18 2-3 2-21 2-23 3-4 3-6 4-5 4-9 5-20 5-22 6-7 6-10  
7-12 7-25 8-13 8-9 8-25 9-15 10-11 11-12 13-14 14-15 25-26 25-27

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS  
22:CLASS 23:CLASS 25:Atom 26:CLASS 27:CLASS

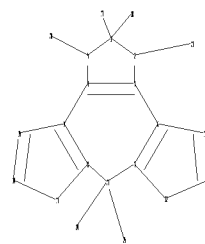
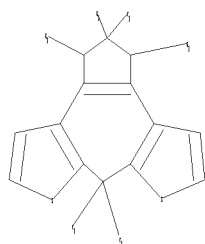
L1 STRUCTURE UPLOADED

=> s l1 sss full  
FULL SEARCH INITIATED 13:20:12 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 3905 TO ITERATE

100.0% PROCESSED 3905 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>  
Uploading C:\Program Files\STNEXP\Queries\10523965a.str



```

chain nodes :
17 18 20 21 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 23
chain bonds :
1-17 1-18 2-21 5-20 23-24 23-25
ring bonds :
1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15
10-11 11-12 13-14 14-15
exact/norm bonds :
1-2 1-5 1-17 1-18 2-3 2-21 3-4 3-6 4-5 4-9 5-20 6-7 6-10 7-12 7-23
8-13 8-9 8-23 9-15 10-11 11-12 13-14 14-15 23-24 23-25

```

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS
23:Atom 24:CLASS 25:CLASS

```

L3            STRUCTURE UPLOADED

=> s l3 sss full

FULL SEARCH INITIATED 13:20:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -        3905 TO ITERATE

100.0% PROCESSED        3905 ITERATIONS

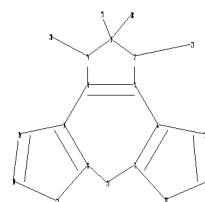
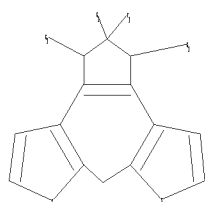
0 ANSWERS

SEARCH TIME: 00.00.01

L4            0 SEA SSS FUL L3

=>

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chain nodes :

17 18 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 23

chain bonds :

1-17 1-18 2-21 5-20

ring bonds :

1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15  
10-11 11-12 13-14 14-15

exact/norm bonds :

1-17 1-18 2-21 5-20

exact bonds :

1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15  
10-11 11-12 13-14 14-15

isolated ring systems :  
containing 1 :

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS  
23:Atom

L5 STRUCTURE UPLOADED

=> s 15 sss full

FULL SEARCH INITIATED 13:21:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS

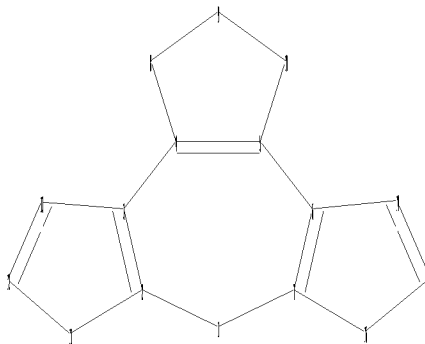
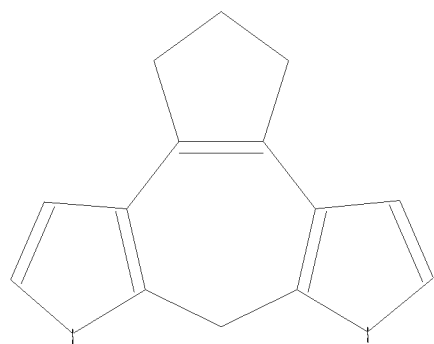
0 ANSWERS

SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L5

=>

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ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ring bonds :

1-2 1-7 2-3 2-11 3-4 3-13 4-5 4-8 5-6 5-10 6-7 6-14 7-16 8-9 9-10  
11-12 12-13 14-15 15-16

exact bonds :

1-2 1-7 2-3 2-11 3-4 3-13 4-5 4-8 5-6 5-10 6-7 6-14 7-16 8-9 9-10  
11-12 12-13 14-15 15-16

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

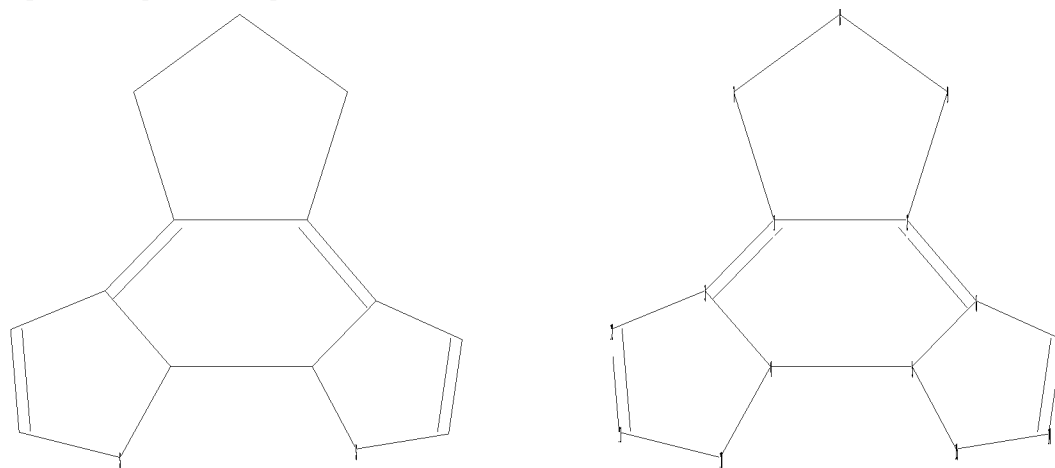
L7            STRUCTURE UPLOADED

=> s 17 sss full  
FULL SEARCH INITIATED 13:22:53 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -            13 TO ITERATE

100.0% PROCESSED            13 ITERATIONS            0 ANSWERS  
SEARCH TIME: 00.00.01

L8            0 SEA SSS FUL L7

=>  
Uploading C:\Program Files\STNEXP\Queries\10523.str



ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
ring bonds :  
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11  
11-12 13-14 14-15  
exact bonds :  
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11  
11-12 13-14 14-15  
isolated ring systems :  
containing 1 :

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L9            STRUCTURE UPLOADED

=> s 19 sss full  
FULL SEARCH INITIATED 13:27:27 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -            1088 TO ITERATE

100.0% PROCESSED            1088 ITERATIONS            632 ANSWERS  
SEARCH TIME: 00.00.01

L10           632 SEA SSS FUL L9

=> file capl		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	933.24	933.46

FILE 'CAPLUS' ENTERED AT 13:27:29 ON 06 AUG 2009  
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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6  
 FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

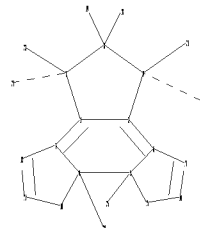
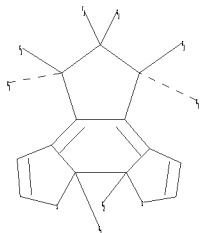
The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s l10  
 L11 353 L10

=> file re  
 'RE' IS AN AMBIGUOUS FILE OR CLUSTER NAME  
 REACTION - Reactions Cluster  
 RESEARCH - Research Cluster  
 REGISTRY - The CAS Registry File of substances  
 ENTER FILE OR CLUSTER NAME (IGNORE):file reg  
 'FILE' IS NOT A VALID FILE NAME  
 Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.  
 ENTER A FILE NAME OR (IGNORE):end

=>  
 Uploading C:\Program Files\STNEXP\Queries\10523a.str





```

chain nodes :
18 19 21 22 24 25 27 28
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28
ring bonds :
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15
exact/norm bonds :
4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28
exact bonds :
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15
isolated ring systems :
containing 1 :

```

G1:H,CH3,Et,X

G2:Cb,Cy,Hy

G3:G1,Ak

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:CLASS 19:CLASS 21:CLASS 22:CLASS
24:CLASS 25:CLASS 27:CLASS 28:CLASS

```

L12        STRUCTURE UPLOADED

=> s l12 sss full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 13:36:30 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED -        1088 TO ITERATE

100.0% PROCESSED        1088 ITERATIONS                    12 ANSWERS  
SEARCH TIME: 00.00.01

L13            12 SEA SSS FUL L12

L14            8 L13

=> d l14 1-8 ibib hitstr

L14 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:        2009:796026 CAPLUS

DOCUMENT NUMBER:        151:123405

TITLE:                    Theoretical Study of Photochromic Compounds. 1. Bond  
Length Alternation and Absorption Spectra for the Open  
and Closed Forms of 29 Diarylethene Derivatives

AUTHOR(S):                Patel, Pansy D.; Masunov, Artem E.

CORPORATE SOURCE:        NanoScience Technology Center, Department of  
Chemistry, and Department of Physics, University of  
Central Florida, Orlando, FL, 32826, USA

SOURCE:                  Journal of Physical Chemistry A (2009), 113(29),  
8409-8414

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER:                American Chemical Society

DOCUMENT TYPE:            Journal

LANGUAGE:                 English

IT    860030-99-5

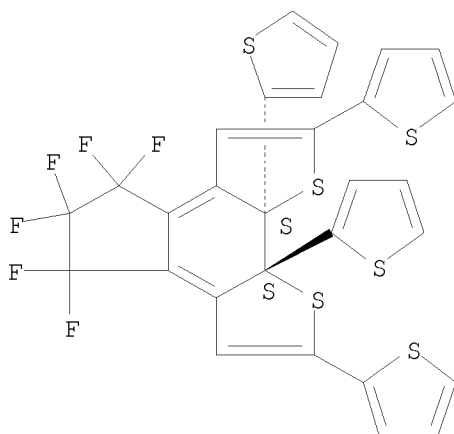
RL: PRP (Properties)

(DFT study on bond length alternation and absorption spectra of the  
open and closed forms of photochromic diarylethene derivs.)

RN    860030-99-5 CAPLUS

CN    4H-Indeno[5,4-b:6,7-b']dithiophene,  
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,  
(9aR,9bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:446764 CAPLUS

DOCUMENT NUMBER: 147:188676

TITLE: Bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene molecular switches triggered with light or electricity

AUTHOR(S): Gorodetsky, Brian; Branda, Neil R.

CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.

SOURCE: Advanced Functional Materials (2007), 17(5), 786-796  
CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:188676

IT 944313-56-8

RL: FMU (Formation, unclassified); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)

(photochem. and electrocatalytic ring opening; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-56-8 CAPLUS

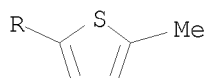
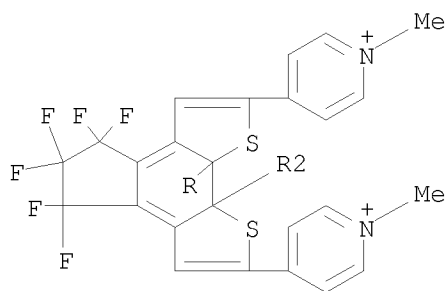
CN Pyridinium, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis[1-methyl-, hexafluorophosphate(1-)] (1:2) (CA INDEX NAME)

CM 1

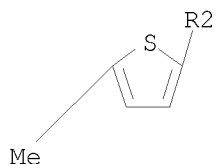
CRN 944313-55-7

CMF C35 H26 F6 N2 S4

PAGE 1-A



PAGE 2-A

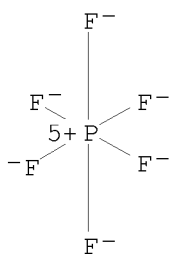


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS

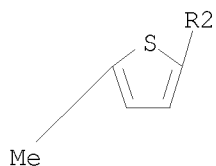
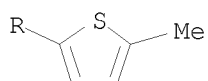
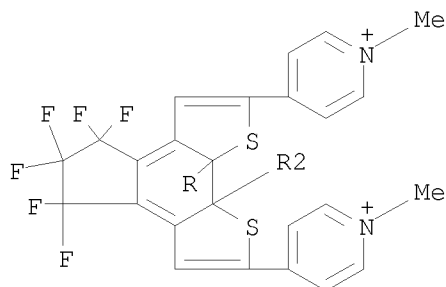


IT 944313-63-7

RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)  
(ring-closed radical cation; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-63-7 CAPLUS

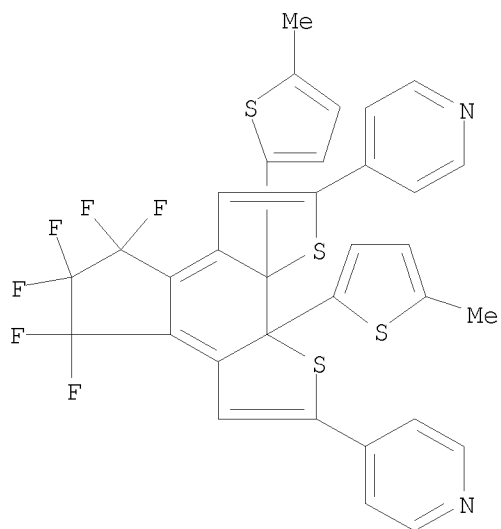
CN Pyridinium, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis[1-methyl-, radical ion(1+) (CA INDEX NAME)



IT 944313-61-5P  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (thermal ring opening; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-61-5 CAPLUS

CN Pyridine, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis- (CA INDEX NAME)

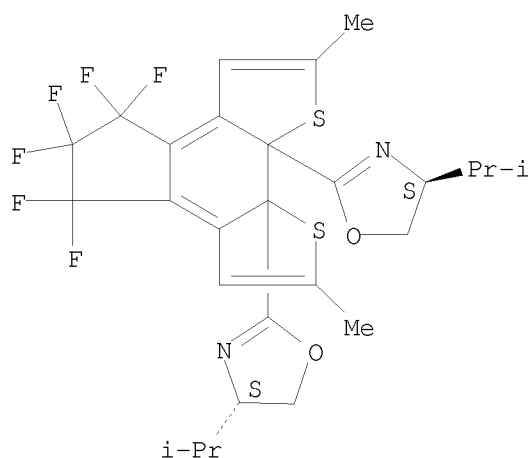


OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)  
REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:54141 CAPLUS  
DOCUMENT NUMBER: 145:438344  
TITLE: Photo controlled stereoselective organic synthetic reaction  
AUTHOR(S): Ishitani, Haruro  
CORPORATE SOURCE: Tokyo Institute of Technology, Japan  
SOURCE: Kagaku (Kyoto, Japan) (2006), 61(1), 64-65  
CODEN: KAKYAU; ISSN: 0451-1964  
PUBLISHER: Kagaku Dojin  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: Japanese  
IT 912969-14-3  
RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(photo controlled stereoselectivity in copper-catalyzed asym. cyclopropanation of styrene by Et diazoacetate)  
RN 912969-14-3 CAPLUS  
CN Oxazole, 2,2'-(4,4,5,5,6,6-hexafluoro-5,6-dihydro-2,8-dimethyl-4H-indeno[5,4-b:6,7-b']dithiophene-9a,9b-diyl)bis[4,5-dihydro-4-(1-methylethyl)-, (4S,4'S)- (9CI) (CA INDEX NAME)

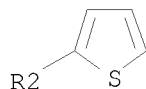
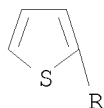
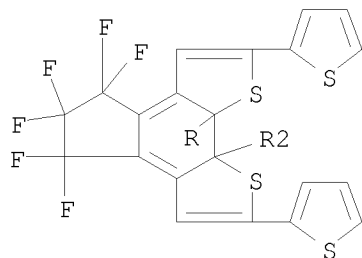
Absolute stereochemistry.



L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

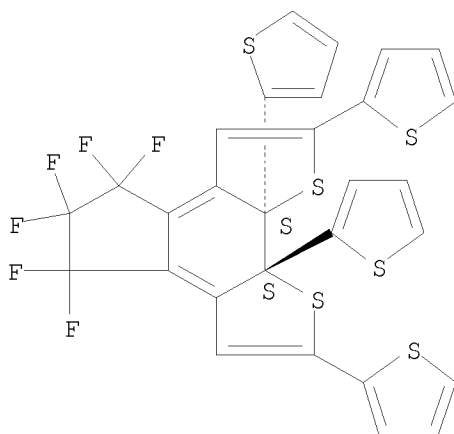
ACCESSION NUMBER: 2005:559648 CAPLUS  
DOCUMENT NUMBER: 143:152970  
TITLE: Electrochemical Cyclization/Cycloreversion Reactions of Diarylethenes  
AUTHOR(S): Moriyama, Yoshihisa; Matsuda, Kenji; Tanifuji, Naoki; Irie, Setsuko; Irie, Masahiro  
CORPORATE SOURCE: Department of Chemistry and Biochemistry, Graduate School of Engineering, JST, Kyushu University and PRESTO, Fukuoka, Higashi-ku, 812-8581, Japan  
SOURCE: Organic Letters (2005), 7(15), 3315-3318  
CODEN: ORLEF7; ISSN: 1523-7060  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal

LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 143:152970  
 IT 860111-71-3  
 RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)  
 RN 860111-71-3 CAPLUS  
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,  
 radical ion(1+), (9aR,9bR)-rel- (9CI) (CA INDEX NAME)



IT 860030-99-5  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)  
 RN 860030-99-5 CAPLUS  
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,  
 (9aR,9bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS  
RECORD (46 CITINGS)

L14 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:143237 CAPLUS

DOCUMENT NUMBER: 140:199926

TITLE: Photochromic and electrochromic compounds and methods  
of synthesizing and using same

INVENTOR(S): Branda, Neil R.; Peters, Andrea; Wigglesworth, Anthony  
J.

PATENT ASSIGNEE(S): Simon Fraser University, Can.

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004015024	A1	20040219	WO 2003-CA1216	20030811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2494920	A1	20040219	CA 2003-2494920	20030811
AU 2003257320	A1	20040225	AU 2003-257320	20030811
JP 2005535692	T	20051124	JP 2004-526557	20030811
US 20060240197	A1	20061026	US 2005-523965	20050207
PRIORITY APPLN. INFO.:			US 2002-402081P	P 20020809
			US 2003-442063P	P 20030124
			WO 2003-CA1216	W 20030811

OTHER SOURCE(S): MARPAT 140:199926

IT 496053-41-9P 496053-42-0P 662143-75-1P

662143-76-2P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP  
(Preparation); USES (Uses)

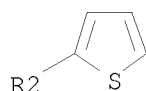
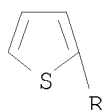
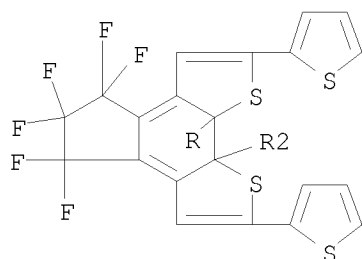
(dithienylcyclopentene derivs. convertible between ring-open and



ring-closed isomeric forms and polymers including them and their  
synthesis and use)

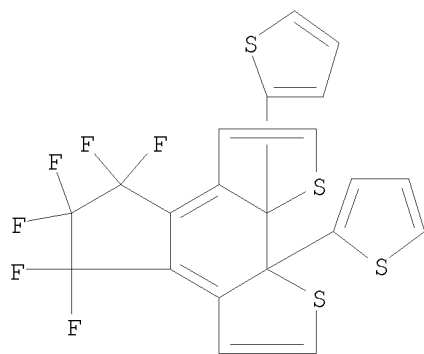
RN 496053-41-9 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-  
(9CI) (CA INDEX NAME)



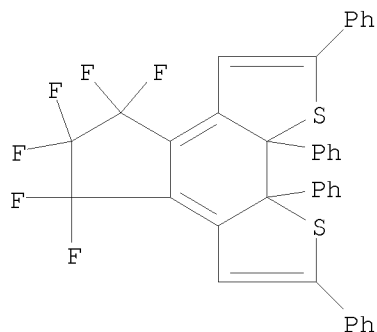
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CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-di-2-thienyl- (9CI) (CA  
INDEX NAME)

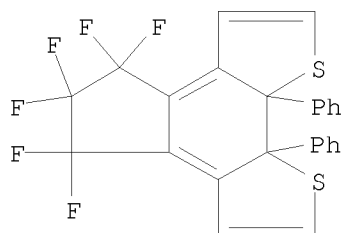


RN 662143-75-1 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetraphenyl- (9CI)  
(CA INDEX NAME)



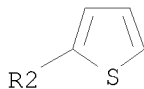
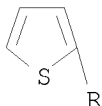
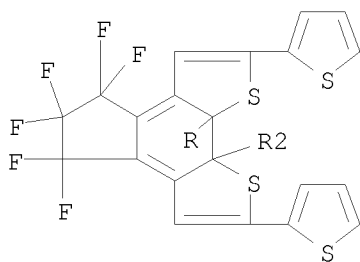
RN 662143-76-2 CAPLUS  
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-diphenyl- (9CI) (CA  
 INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (2 CITINGS)  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:151150 CAPLUS  
 DOCUMENT NUMBER: 138:346346  
 TITLE: Electrochromism in photochromic dithienylcyclopentenenes  
 AUTHOR(S): Peters, Andrea; Branda, Neil R.  
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,  
 Burnaby, BC, V5A 1S6, Can.  
 SOURCE: Journal of the American Chemical Society (2003),  
 125(12), 3404-3405  
 CODEN: JACSAT; ISSN: 0002-7863  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

IT 496053-41-9  
 RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical,  
 engineering or chemical process); PRP (Properties); RCT (Reactant); FORM  
 (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)  
 (photochem. ring-closing and electrochem. ring opening properties of  
 bis(thienyl)cyclopentene derivs.)  
 RN 496053-41-9 CAPLUS  
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-  
 (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 91 THERE ARE 91 CAPLUS RECORDS THAT CITE THIS  
RECORD (91 CITINGS)  
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:735163 CAPLUS

DOCUMENT NUMBER: 138:160898

TITLE: Regulating  $\pi$ -conjugated pathways using a  
photochromic 1,2-dithienylcyclopentene

AUTHOR(S): Peters, Andrea; McDonald, Robert; Branda, Neil R.

CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,  
Burnaby, BC, V5A 1S6, Can.

SOURCE: Chemical Communications (Cambridge, United Kingdom)  
(2002), (19), 2274-2275

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

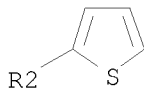
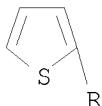
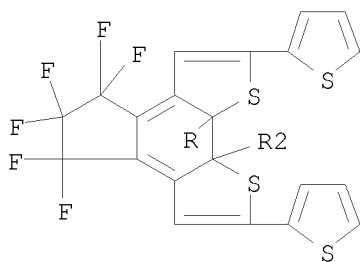
IT 496053-41-9 496053-42-0

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical,  
engineering or chemical process); PRP (Properties); FORM (Formation,  
nonpreparative); PROC (Process)

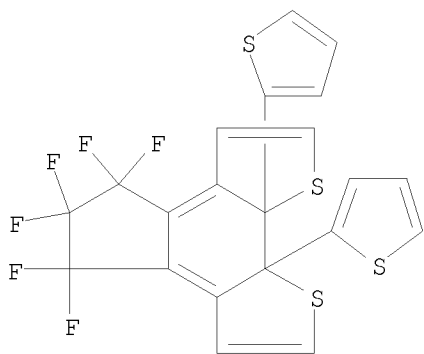
(regulation and reversible re-routing of  $\pi$ -conjugation by  
photochromic reactions of bis(terthiophene) derivs. with  
diethienylethene backbone)

RN 496053-41-9 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-  
(9CI) (CA INDEX NAME)



RN 496053-42-0 CAPLUS  
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,  
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-di-2-thienyl- (9CI) (CA  
 INDEX NAME)



OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS  
 RECORD (17 CITINGS)  
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:487244 CAPLUS

DOCUMENT NUMBER: 137:337515

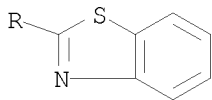
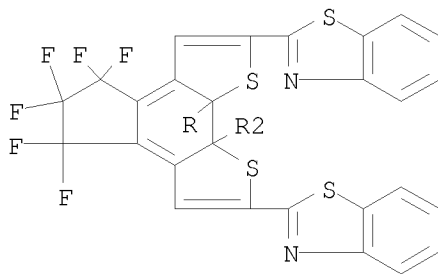
TITLE: Photochromic dihetarylethenes. 10. Photochromic  
 1,2-bis[2-(benzothiazol-2-yl)-3-thienyl]- and  
 1,2-bis[2-(benzothiazol-2-yl)benzothiophen-3-  
 yl]ethenes

AUTHOR(S): Krayushkin, M. M.; Stoyanovich, F. M.; Zolotarskaya,  
 O. Yu.; Murav'ev, I. V.; Martynkin, A. Yu.; Uzhinov,  
 B. M.

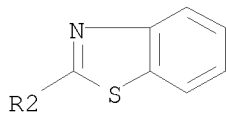
CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian  
 Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2001), 50(12), 2420-2423  
 CODEN: RCBUEY; ISSN: 1066-5285  
 PUBLISHER: Kluwer Academic/Consultants Bureau  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 137:337515  
 IT 474098-48-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (photochem. and thermal ring opening; preparation and photochromism of 1,2-di(thien-3-yl)ethenes containing thiophene rings with benzothiazolyl substituents)  
 RN 474098-48-1 CAPLUS  
 CN Benzothiazole, 2,2',2'',2'''-(4,4,5,5,6,6-hexafluoro-5,6-dihydro-4H-indeno[5,4-b:6,7-b']dithiophene-2,8,9a,9b-tetrayl)tetrakis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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NEWS 3 JUN 01 CAS REGISTRY Source of Registration (SR) searching  
enhanced on STN  
NEWS 4 JUN 26 NUTRACEUT and PHARMAML no longer updated  
NEWS 5 JUN 29 IMSCOPROFILE now reloaded monthly  
NEWS 6 JUN 29 EPFULL adds Simultaneous Left and Right Truncation  
(SLART) to AB, MCLM, and TI fields  
NEWS 7 JUL 09 PATDPAFULL adds Simultaneous Left and Right  
Truncation (SLART) to AB, CLM, MCLM, and TI fields  
NEWS 8 JUL 14 USGENE enhances coverage of patent sequence location  
(PSL) data  
NEWS 9 JUL 27 CA/CAPLUS enhanced with new citing references  
NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855  
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information  
NEWS 12 JUL 28 EPFULL adds first-page images and applicant-cited  
references  
NEWS 13 JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data  
  
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.  
  
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DICTIONARY FILE UPDATES: 5 AUG 2009 HIGHEST RN 1173150-47-4

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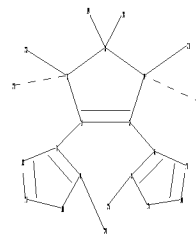
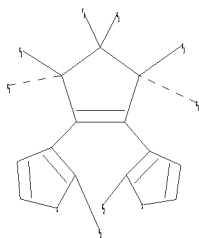
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

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chain nodes :  
18 19 21 22 24 25 27 28  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
chain bonds :  
1-3 2-6 4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28  
ring bonds :

1-2 1-7 2-9 3-4 3-12 4-10 5-6 5-15 6-13 7-8 8-9 10-11 11-12 13-14  
14-15  
exact/norm bonds :  
3-4 3-12 4-24 4-10 5-25 5-6 5-15 6-13 7-22 7-27 8-18 8-19 9-21 9-28  
10-11 11-12 13-14 14-15  
exact bonds :  
1-2 1-3 1-7 2-6 2-9 7-8 8-9  
isolated ring systems :  
containing 1 :

G1:H,CH3,Et,X

G2:Cb,Cy,Hy

G3:G1,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:CLASS 19:CLASS 21:CLASS 22:CLASS  
24:CLASS 25:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 14:30:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4931 TO ITERATE

100.0% PROCESSED 4931 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

L2 15 SEA SSS FUL L1

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

186.10

FILE 'CAPLUS' ENTERED AT 14:30:10 ON 06 AUG 2009

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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6

FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009



CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s 12

L3 13 L2

=> d 13 1-13 ibib hitstr

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:796026 CAPLUS

DOCUMENT NUMBER: 151:123405

TITLE: Theoretical Study of Photochromic Compounds. 1. Bond Length Alternation and Absorption Spectra for the Open and Closed Forms of 29 Diarylethene Derivatives

AUTHOR(S): Patel, Pansy D.; Masunov, Artem E.

CORPORATE SOURCE: NanoScience Technology Center, Department of Chemistry, and Department of Physics, University of Central Florida, Orlando, FL, 32826, USA

SOURCE: Journal of Physical Chemistry A (2009), 113(29), 8409-8414

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

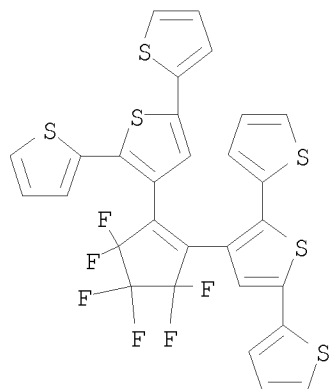
IT 496053-39-5

RL: PRP (Properties)

(DFT study on bond length alternation and absorption spectra of the open and closed forms of photochromic diarylethene derivs.)

RN 496053-39-5 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:564947 CAPLUS

DOCUMENT NUMBER: 146:531243

TITLE: Optical article having anti-theft feature and a system and method for inhibiting theft of same

INVENTOR(S): Wisnudel, Marc Brian; Topka, Terry Michael; Wu, Pingfan Peter; Potyrailo, Radislav Alexandrovich; Gascoyne, David Gilles; Smith, William David; Dhalla, Adil Minoo; Chauhan, Yogendrasinh Bharatsinh; Pawar, Rupesh Bhikaji; Singh, Bharat; Maruvada, Sriramakrishna; Pai-Paranjape, Vandita; Welles, Kenneth Brakeley; Schottland, Philippe; Olczak, Eugene George; Menon, Ashok

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 31pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070116988	A1	20070524	US 2005-286279	20051121
US 20070116920	A1	20070524	US 2006-557618	20061108
AU 2006318608	A1	20070531	AU 2006-318608	20061120
CA 2629158	A1	20070531	CA 2006-2629158	20061120
WO 2007061974	A1	20070531	WO 2006-US44943	20061120
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1955328	A1	20080813	EP 2006-838099	20061120
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
US 20080012707	A1	20080117	US 2007-864509	20070928
US 20080019258	A1	20080124	US 2007-864516	20070928
PRIORITY APPLN. INFO.:			US 2005-286279	A2 20051121
			US 2006-538451	A2 20061004
			WO 2006-US44943	W 20061120

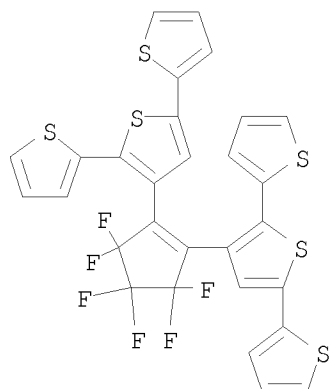
IT 496053-39-5

RL: MOA (Modifier or additive use); USES (Uses)

(optical article having anti-theft feature and a system and method for inhibiting theft of same)

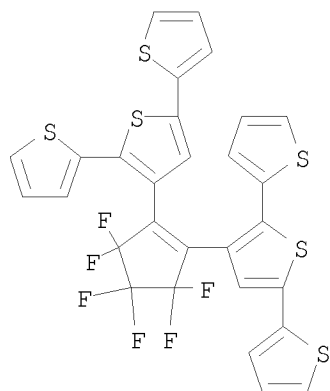
RN 496053-39-5 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:564333 CAPLUS  
 DOCUMENT NUMBER: 147:19764  
 TITLE: Optical data carrier having anti-theft feature by  
 activating / de-activating an electro- chromic  
 structure  
 INVENTOR(S): Wisnudel, Marc Brian; Welles, Kenneth Brakeley; Litz,  
 Kyle Erik  
 PATENT ASSIGNEE(S): General Electric Company, USA  
 SOURCE: PCT Int. Appl., 77pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007059288	A1	20070524	WO 2006-US44539	20061117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM US 20070115762 A1 20070524 US 2005-286280 20051121 PRIORITY APPLN. INFO.: US 2005-286280 A 20051121 IT 496053-39-5 RL: TEM (Technical or engineered material use); USES (Uses) (optical data carrier having anti-theft feature by activating / de-activating an electro- chromic structure) RN 496053-39-5 CAPLUS CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene- 1,2-diyl)bis- (CA INDEX NAME)				



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:446764 CAPLUS

DOCUMENT NUMBER: 147:188676

TITLE: Bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene molecular switches triggered with light or electricity

AUTHOR(S): Gorodetsky, Brian; Branda, Neil R.

CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.

SOURCE: Advanced Functional Materials (2007), 17(5), 786-796

CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:188676

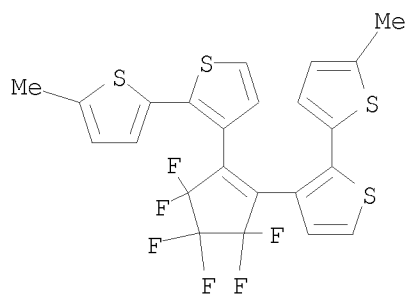
IT 944313-46-6P

RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(coupling reaction with 4-bromopyridine; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-46-6 CAPLUS

CN 2,2'-Bithiophene, 3-[3,3,4,4,5,5-hexafluoro-2-(5'-methyl[2,2'-bithiophen]-3-yl)-1-cyclopenten-1-yl]-5'-methyl- (CA INDEX NAME)



IT 944313-49-9P

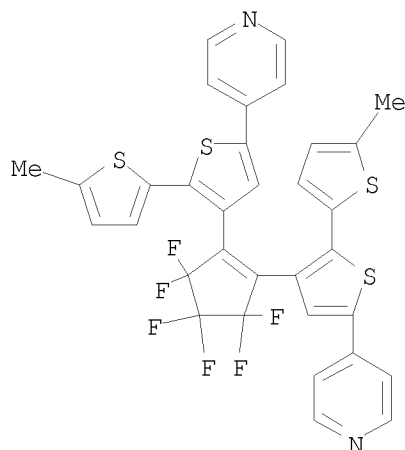
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(quaternization and photochem. ring closure; bidirectional ring-opening

and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-49-9 CAPLUS

CN Pyridine, 4,4'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5'-methyl[2,2'-bithiophene]-3,5-diyl)]bis- (CA INDEX NAME)



IT 944313-52-4P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(target, photochem. and electrochem. ring closure; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

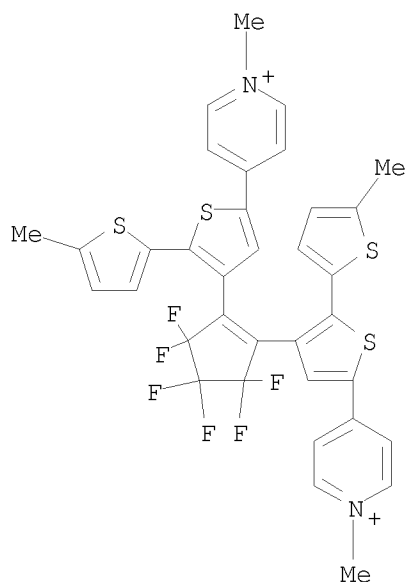
RN 944313-52-4 CAPLUS

CN Pyridinium, 4,4'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5'-methyl[2,2'-bithiophene]-3,5-diyl)]bis[1-methyl-, hexafluorophosphate(1-)(1:2)] (CA INDEX NAME)

CM 1

CRN 944313-51-3

CMF C35 H26 F6 N2 S4

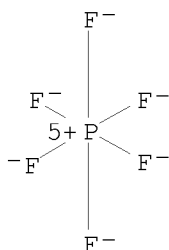


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:499931 CAPLUS

DOCUMENT NUMBER: 146:102323

TITLE: Photochromic 1,2-dihetarylethenes with perfluorocyclopentene bridge: Synthesis and spectral and kinetic study

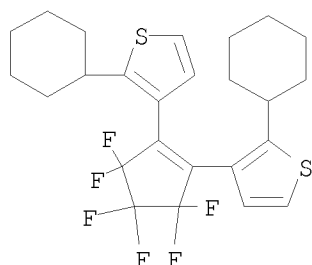
AUTHOR(S): Yarovenko, V. N.; Es'kov, A. A.; Semenov, S. L.; Zavarzin, I. V.; Kadentsev, V. I.; Kalik, M. A.; Krayushkin, M. M.; Strokach, Yu. P.; Valova, T. M.; Golotyuk, Z. O.; Barachevsky, V. A.

CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (2005), 54(12), 2790-2793  
CODEN: RCBUEY; ISSN: 1066-5285

PUBLISHER: Springer

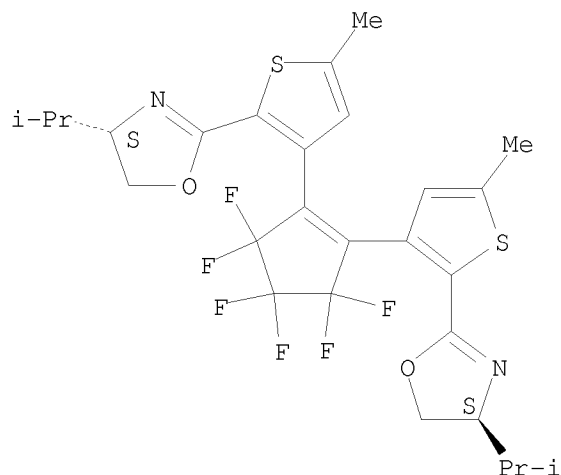
DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 146:102323  
 IT 917867-69-7  
 RL: PRP (Properties)  
 (photochromic 1,2-dihetarylethenes with perfluorocyclopentene bridge)  
 RN 917867-69-7 CAPLUS  
 CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-cyclohexyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)

L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:54141 CAPLUS  
 DOCUMENT NUMBER: 145:438344  
 TITLE: Photo controlled stereoselective organic synthetic  
 reaction  
 AUTHOR(S): Ishitani, Haruro  
 CORPORATE SOURCE: Tokyo Institute of Technology, Japan  
 SOURCE: Kagaku (Kyoto, Japan) (2006), 61(1), 64-65  
 CODEN: KAKYAU; ISSN: 0451-1964  
 PUBLISHER: Kagaku Dojin  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: Japanese  
 IT 912969-12-1  
 RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES  
 (Uses)  
 (photo controlled stereoselectivity in copper-catalyzed asym.  
 cyclopropanation of styrene by Et diazoacetate)  
 RN 912969-12-1 CAPLUS  
 CN Oxazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5-methyl-3,2-thiophenediyl)]bis[4,5-dihydro-4-(1-methylethyl)-, (4S,4'S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:559648 CAPLUS

DOCUMENT NUMBER: 143:152970

TITLE: Electrochemical Cyclization/Cycloreversion Reactions of Diarylethenes

AUTHOR(S): Moriyama, Yoshihisa; Matsuda, Kenji; Tanifuji, Naoki; Irie, Setsuko; Irie, Masahiro

CORPORATE SOURCE: Department of Chemistry and Biochemistry, Graduate School of Engineering, JST, Kyushu University and PRESTO, Fukuoka, Higashi-ku, 812-8581, Japan

SOURCE: Organic Letters (2005), 7(15), 3315-3318

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

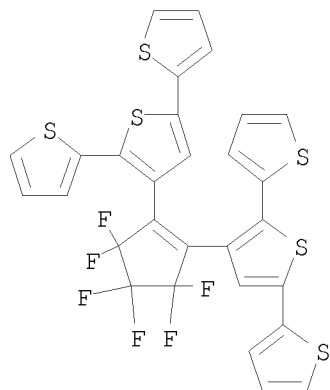
OTHER SOURCE(S): CASREACT 143:152970

IT 860031-05-6

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)

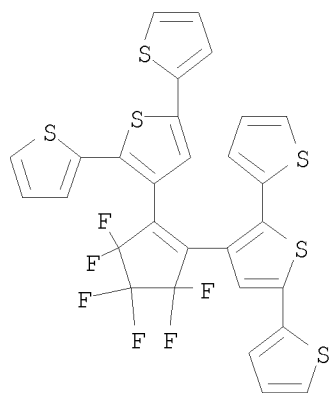
RN 860031-05-6 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis-, radical ion(1+) (9CI) (CA INDEX NAME)





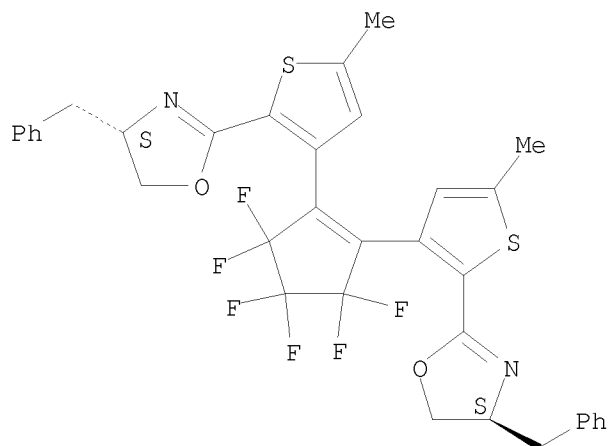
IT 496053-39-5  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)  
 (electrochem. cyclization/cycloreversion reactions of diarylethenes)  
 RN 496053-39-5 CAPLUS  
 CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (46 CITINGS)

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2005:329974 CAPLUS  
 DOCUMENT NUMBER: 143:7262  
 TITLE: Photoswitching of stereoselectivity in catalysis using a copper dithienylethene complex  
 AUTHOR(S): Sud, David; Norsten, Tyler B.; Branda, Neil R.  
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.  
 SOURCE: Angewandte Chemie, International Edition (2005), 44(13), 2019-2021  
 CODEN: ACIEF5; ISSN: 1433-7851  
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 143:7262  
 IT 852631-43-7  
 RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
 (photoswitching of stereoselectivity in catalysis using copper dithienylethene complex)  
 RN 852631-43-7 CAPLUS  
 CN Oxazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5-methyl-3,2-thiophenediyl)]bis[4,5-dihydro-4-(phenylmethyl)-, (4S,4'S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:143237 CAPLUS  
 DOCUMENT NUMBER: 140:199926  
 TITLE: Photochromic and electrochromic compounds and methods of synthesizing and using same  
 INVENTOR(S): Branda, Neil R.; Peters, Andrea; Wigglesworth, Anthony J.  
 PATENT ASSIGNEE(S): Simon Fraser University, Can.  
 SOURCE: PCT Int. Appl., 62 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

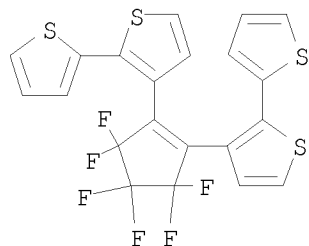
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004015024	A1	20040219	WO 2003-CA1216	20030811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2494920	A1	20040219	CA 2003-2494920	20030811
AU 2003257320	A1	20040225	AU 2003-257320	20030811
JP 2005535692	T	20051124	JP 2004-526557	20030811
US 20060240197	A1	20061026	US 2005-523965	20050207
PRIORITY APPLN. INFO.:			US 2002-402081P	P 20020809
			US 2003-442063P	P 20030124
			WO 2003-CA1216	W 20030811

OTHER SOURCE(S): MARPAT 140:199926  
 IT 496053-40-8P 516492-70-9P 516492-71-0P  
 RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
 (dithienylcyclopentene derivs. convertible between ring-open and

ring-closed isomeric forms and polymers including them and their synthesis and use)

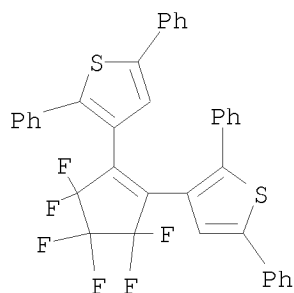
RN 496053-40-8 CAPLUS

CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-cyclopenten-1-yl)- (CA INDEX NAME)



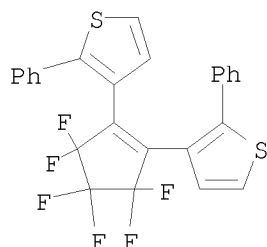
RN 516492-70-9 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2,5-diphenyl- (CA INDEX NAME)



RN 516492-71-0 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-phenyl- (CA INDEX NAME)

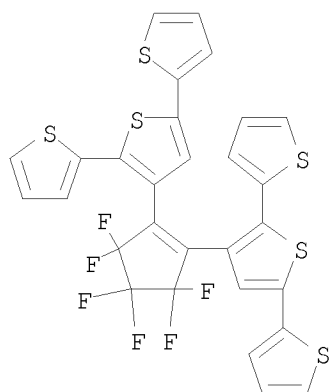


IT 496053-39-5P

RL: DEV (Device component use); IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (dithienylcyclopentene derivs. convertible between ring-open and ring-closed isomeric forms and polymers including them and their synthesis and use)

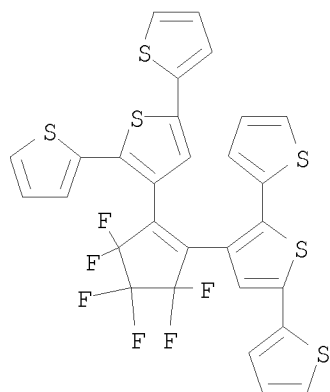
RN 496053-39-5 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
(2 CITINGS)  
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2003:151150 CAPLUS  
DOCUMENT NUMBER: 138:346346  
TITLE: Electrochromism in photochromic dithienylcyclopentenones  
AUTHOR(S): Peters, Andrea; Branda, Neil R.  
CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,  
Burnaby, BC, V5A 1S6, Can.  
SOURCE: Journal of the American Chemical Society (2003),  
125(12), 3404-3405  
CODEN: JACSAT; ISSN: 0002-7863  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 496053-39-5  
RL: CPS (Chemical process); PEP (Physical, engineering or chemical  
process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant  
or reagent)  
(photochem. ring-closing and electrochem. ring opening properties of  
bis(thienyl)cyclopentene derivs.)  
RN 496053-39-5 CAPLUS  
CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-  
1,2-diyl)bis- (CA INDEX NAME)

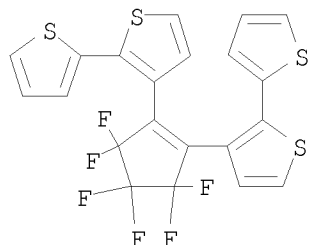


IT 496053-40-8 516492-70-9 516492-71-0

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)  
(photochromic and electrochromic properties of bis(thienyl)cyclopentene derivs.)

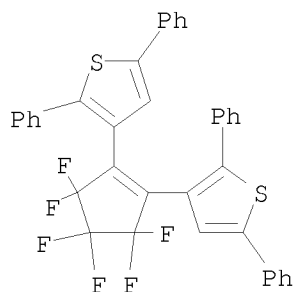
RN 496053-40-8 CAPLUS

CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-cyclopenten-1-yl)- (CA INDEX NAME)



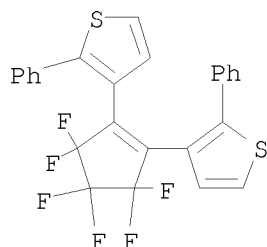
RN 516492-70-9 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2,5-diphenyl)- (CA INDEX NAME)



RN 516492-71-0 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-phenyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 91 THERE ARE 91 CAPLUS RECORDS THAT CITE THIS RECORD (91 CITINGS)  
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

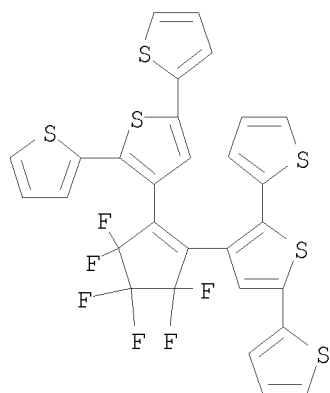
L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:735163 CAPLUS

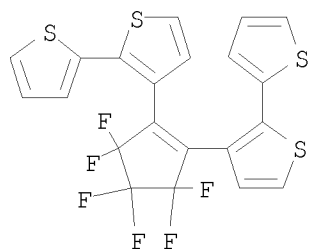
DOCUMENT NUMBER: 138:160898

TITLE: Regulating  $\pi$ -conjugated pathways using a

AUTHOR(S): photochromic 1,2-dithienylcyclopentene  
 Peters, Andrea; McDonald, Robert; Branda, Neil R.  
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,  
 Burnaby, BC, V5A 1S6, Can.  
 SOURCE: Chemical Communications (Cambridge, United Kingdom)  
 (2002), (19), 2274-2275  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 496053-39-5 496053-40-8  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical  
 process); PRP (Properties); PROC (Process)  
 (regulation and reversible re-routing of  $\pi$ -conjugation by  
 photochromic reactions of bis(terthiophene) derivs. with  
 diethienylethene backbone)  
 RN 496053-39-5 CAPLUS  
 CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-  
 1,2-diyl)bis- (CA INDEX NAME)



RN 496053-40-8 CAPLUS  
 CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-  
 cyclopenten-1-yl)- (CA INDEX NAME)



OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS  
 RECORD (17 CITINGS)  
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2002:487244 CAPLUS  
 DOCUMENT NUMBER: 137:337515  
 TITLE: Photochromic dihetarylethenes. 10. Photochromic

1,2-bis[2-(benzothiazol-2-yl)-3-thienyl]- and  
1,2-bis[2-(benzothiazol-2-yl)benzothiophen-3-  
yl]ethenes

AUTHOR(S): Krayushkin, M. M.; Stoyanovich, F. M.; Zolotarskaya,  
O. Yu.; Murav'ev, I. V.; Martynkin, A. Yu.; Uzhinov,  
B. M.

CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian  
Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya  
Akademii Nauk, Seriya Khimicheskaya) (2001), 50(12),  
2420-2423  
CODEN: RCBUEY; ISSN: 1066-5285

PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

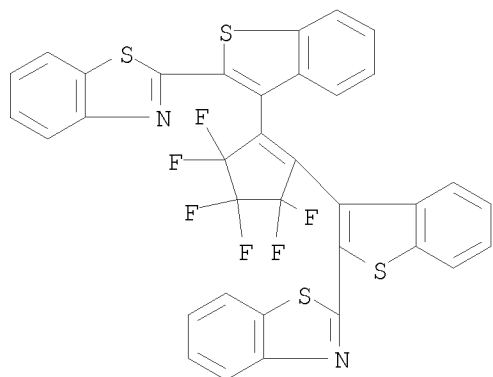
OTHER SOURCE(S): CASREACT 137:337515

IT 474098-41-4P 474098-43-6P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP  
(Preparation); RACT (Reactant or reagent)  
(photochromism; preparation and photochromism of 1,2-di(thien-3-yl)ethenes  
containing thiophene rings with benzothiazolyl substituents)

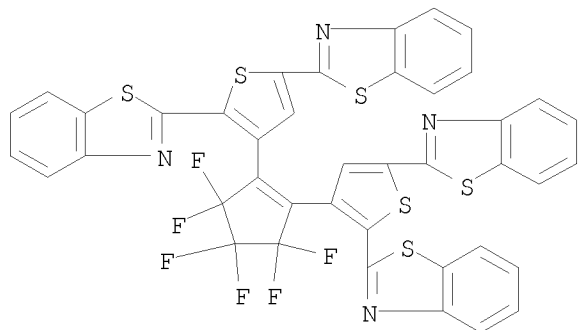
RN 474098-41-4 CAPLUS

CN Benzothiazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-  
diyl)bis(benzo[b]thiophene-3,2-diyl)]bis- (9CI) (CA INDEX NAME)



RN 474098-43-6 CAPLUS

CN Benzothiazole, 2,2',2'',2'''-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-  
diyl)di-3,2,5-thiophenetriyl]tetrakis- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD  
(3 CITINGS)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1996:516349 CAPLUS  
DOCUMENT NUMBER: 125:225107  
ORIGINAL REFERENCE NO.: 125:42025a,42028a  
TITLE: Switching flow and phase behavior in surfactant systems via photochemical reactions  
AUTHOR(S): Nees, D.; Blenkle, M.; Koschade, A.; Wolff, T.; Baglioni, P.; Dei, L.  
CORPORATE SOURCE: Physikalische Chem., Universitaet-GH-Siegen, Siegen, D-57068, Germany  
SOURCE: Progress in Colloid & Polymer Science (1996), 101(Interfaces, Surfactants and Colloids in Engineering), 75-85  
CODEN: PCPSD7; ISSN: 0340-255X  
PUBLISHER: Steinkopff  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 182003-81-2P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(phase transition of surfactant systems analyzed by ESR spin probes of photocyclizable dithienylhexafluorocyclopentenes)  
RN 182003-81-2 CAPLUS  
CN Oxazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)di-3,2-thiophenediyl]bis[4,5-dihydro-4,4-dimethyl- (9CI) (CA INDEX NAME)

